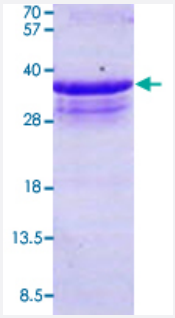
Full-Length

PSMF1 (Human) Recombinant Protein

Catalog # P4540 Size 100 ug

Applications



Specification

Product Description	Human PSMF1 (NP_006805, 1 a.a. - 271 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.
Sequence	MGSSHHHHHHSSGLVPRGSHMAGLEVLFASAAPAITCRQDALVCFLHWEVVTHGYCGLGVGDQ PGPNDKKSELLPAGWNNNKDLYVLRYEYKDGSRKLLVKAITVESSMILNVLEYGSQQVADLTLNL DDYIDAEHLGDFHRTYKNSEELRSRIVSGIITPIHEQWEKANVSSPHREFPPATAREVDPLRIPPHH PHTSRQPPWCDPLGPFVVGGEDLDPFGPRRGGMIVDPLRSGFPRALIDPSSGLPNRLPPGAVP PGARFDPFGPIGTSPPGPNPDHLPPPGYDDMYL
Host	Escherichia coli
Theoretical MW (kDa)	31.9
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Concentration	0.5 mg/mL
Purity	> 85% by SDS - PAGE
Quality Control Testing	15% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 20 mM Tris-HCl buffer, pH 8.0 (20% glycerol, 1 mM DTT, 0.1 mM PMSF).

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PSMF1

Entrez GeneID	9491
Protein Accession#	NP_006805
Gene Name	PSMF1
Gene Alias	PI31
Gene Description	proteasome (prosome, macropain) inhibitor subunit 1 (PI31)
Gene Ontology	Hyperlink
Gene Summary	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a protein that inhibits the activation of the proteasome by the 11S and 19S regulators. Alternative transcript variants have been identified for this gene. [provided by RefSeq
Other Designations	proteasome inhibitor hP131 subunit|proteasome inhibitor subunit 1

Pathway

- Proteasome

Copyright © 2023 Abnova Corporation. All Rights Reserved.